

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME MAGNAFLUX CORPORATION		EMERGENCY TELEPHONE NO. (312) 867-8000
ADDRESS (Number, Street, City, State, and ZIP Code) 7300 West Lawrence Avenue, Chicago, Illinois 60656		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS ZL-16 Zyglo Penetrant
CHEMICAL FAMILY	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES	<i>Kerosene 80%</i>	<i>(10)</i>	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains no hazardous ingredients per Federal Standard No. 313A					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	390°F IBP	SPECIFIC GRAVITY (H ₂ O=1)	0.85
VAPOR PRESSURE (mm Hg.)	<1 mm at 100°F	PERCENT, VOLATILE BY VOLUME (%)	25%
VAPOR DENSITY (AIR=1)	Unknown	EVAPORATION RATE (_____ =1)	Not completely volatile
SOLUBILITY IN WATER	Emulsifiable		
APPEARANCE AND ODOR	Green liquid, kerosene odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	170°F PM Closed Cup	FLAMMABLE LIMITS	<div> <div> Lel 1% </div> <div> Uel 16% </div> </div>
EXTINGUISHING MEDIA	Dry chemical, Foam, Carbon Dioxide		
SPECIAL FIRE FIGHTING PROCEDURES	Keep containers cool with water spray.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	None		

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not Established
EFFECTS OF OVEREXPOSURE	Dizziness, drowsiness, nausea. Dries and irritates skin on frequent exposure. Irritating to eyes
EMERGENCY AND FIRST AID PROCEDURES	Remove to fresh air. Wash off skin promptly with soap and water. If in eyes, rinse copiously with water.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)		May dissolve or soften rubber and plastics.	
HAZARDOUS DECOMPOSITION PRODUCTS		None	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Soak up with absorbent compounds and sweep up. Can be flushed away with water spray.
WASTE DISPOSAL METHOD
Treat as oil waste. Material is combustible, can be burned. Not an EPA hazardous waste.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		
Respirator with mist collector if sprayed.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Neoprene gloves if exposure is unavoidable		EYE PROTECTION Full goggles when pouring or spraying
OTHER PROTECTIVE EQUIPMENT None		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store in dry place, away from heat sources. Keep containers tightly closed.
OTHER PRECAUTIONS
ZL-16 exerts drying action on skin, leading to irritation. Wipe off promptly. Remove saturated clothing.

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